

ABSTRACT

A two-way actuated shape memory composite material is provided. The composite material includes a shape memory alloy and an elastic metal. The composite material takes a first shape at a lower temperature and a second shape at a higher temperature. At the higher temperature, the shape memory alloy has a “remembered” shape, causing the composite material to take the second shape. The elastic material provides the composite material with elastic properties which cause the composite material to return to the first shape when cooled to the lower temperature.

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